

IN THE CLAIMS:

1. (Currently amended) An LED traffic signal light device, comprising:

a light display housing having a pair of concentric circular portions wherein an annular illuminating area is created between said pair of concentric circular portions;

a central processing unit consisting of a microprocessor, a memory and an interface circuit disposed within said light display housing and for controlling the operation of the whole device and outputting a signal and receiving a command via an output and input interface;

a control panel being a printed circuit board and recording a circuit and relevant parameters therein in advance;

an LED signal light consisting of plural LEDs which actively show a light display in a closed circuit and show various colors accompanying with various arrangements into abstract symbols for indicating various traffic situations;

[[an]] said output and input interface provided for said central processing unit to output a signal or receive an external command signal through said interface; and

an adapter provided for converting an AC to a DC and stabilizing the current provided to the whole device, and wherein the illuminated length of the annular area

between said pair of concentric circles becomes shorter in a counter clockwise direction as the LED traffic signal device is changing from displaying one traffic signal to another.

2. (Currently amended) The LED traffic signal light device according to claim 1, further comprising a battery for alternatively providing power to the whole device with its storage power when the AC power source is ineffective.

3. (Currently amended) The LED traffic signal light device according to claim 1, wherein said device is connected to an AC power supply.

4. (Currently amended) The LED traffic signal light device according to claim 1, wherein said LED is monochromatic LED selected from a group consisting of a red LED, a green LED and a yellow LED.

5. (Currently amended) The LED traffic signal light device according to claim 1, wherein said ~~[[LES]]~~ LED is a color changing LED showing a light of a particular color under different particular voltages.

6. (Currently amended) The LED signal light device

according to claim 5, wherein said particular color is red, yellow or green.

7. (Currently amended) The LED traffic signal light device according to claim 1, wherein said LED signal light shows a light display time via the LED lighting areas or numerals.

8. (Currently amended) The LED traffic signal light device according to claim 1, wherein said LED signal light is displayed with a twinkled light.